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TITLE: FLUORENE POLYMER FOR EL ELEMENT AND EL ELEMENT USING
THE SAME

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ABSTRACT:

PROBLEM TO BE SOLVED: To obtain a fluorescent material of a polymer-based
EL

element, which is produced by a simple process, has a well-defined structure of
a final substance and is highly soluble in organic solvents by using a
specified alternating fluorene copolymer.

SOLUTION: This material is an alternating fluorene copolymer represented by formula I (wherein R and R' are each H, a 22C or lower alkyl, a cycloalkyl, an alkoxyl, an alkoxyalkyl, an alkoxyalkoxyalkyl, an alkoxyalkoxyalkoxyalkyl, a 6-18C aryl, an alkylthio or an aralkyl; X is H or cyano; Ar is a group of formula II or a group of formula III; R'' and R''' are each the same as R or R'; n' is 1-22; and n is 1-2,000). This copolymer or a mixture thereof with a general-purpose polymeric material is used as a luminescent material of an EL element.

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